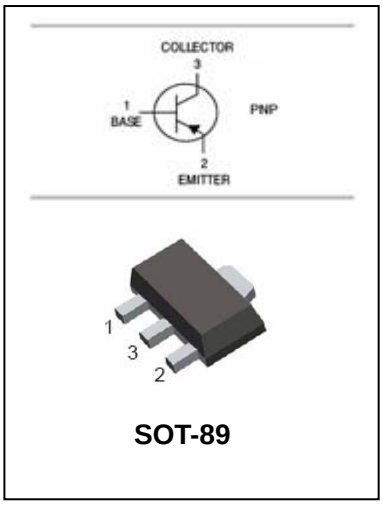
PNP EPITAXIAL PLANAR TRANSISTOR HM4033

FEATURES

- The HM4033 is designed for high current general purpose amplifier applications.

Lead-free



SOT-89

ORDERING INFORMATION

Type No.	Marking	Package Code
HM4403	H4403	SOT-89

MAXIMUM RATING @ Ta=25℃ unless otherwise specified

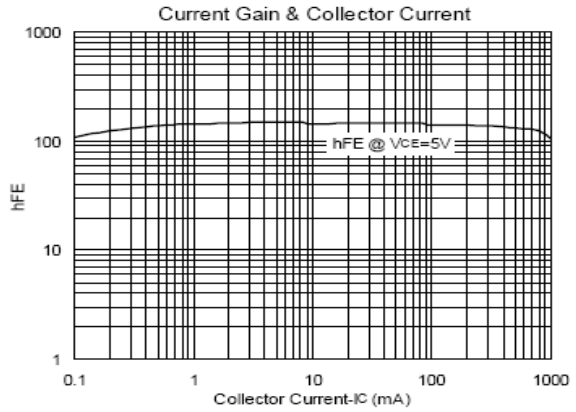
Symbol	**Parameter**	**Value**	**Units**
V_{CBO}	Collector-Base Voltage	-80	V
V_{CEO}	Collector-Emitter Voltage	-80	V
V_{EBO}	Emitter-Base Voltage	-5	V
I_C	Collector Current -Continuous	-1	A
P_D	Power Dissipation	1.2	W
T_j,T_{stg}	Junction and Storage Temperature	-55~150	℃

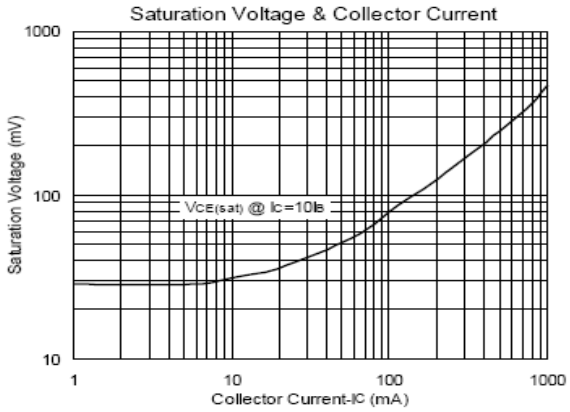
PNP EPITAXIAL PLANAR TRANSISTOR HM4033

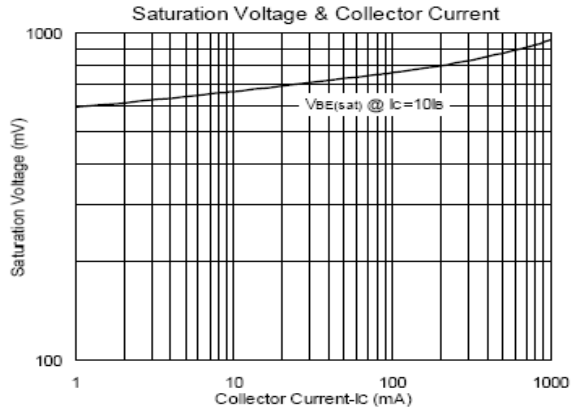
ELECTRICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified

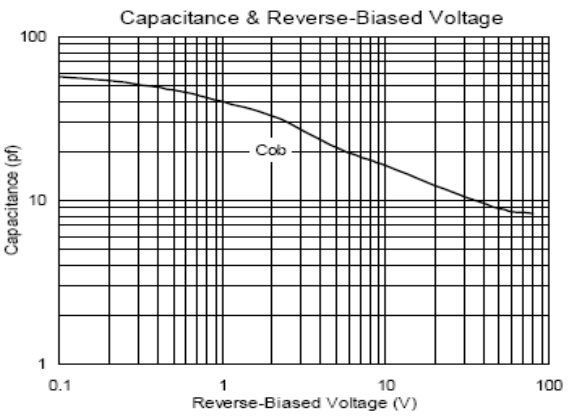
Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	I_C=-10μA,I_E=0	-80			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}$	I_C=-10mA,I_B=0	-80			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	I_E=-10μA,I_C=0	-5			V
Collector cut-off current	I_{CBO}	V_{CB}=-60V			-100	nA
Emitter cut-off current	I_{EBO}	V_{EB}=-5V,I_C=0			-100	nA
DC current gain	h_{FE}	V_{CE}=-5V,I_C=-0.1mA V_{CE}=-5V,I_C=-0.1A V_{CE}=-5V,I_C=-0.5A V_{CE}=-5V,I_C=-1A	75 100 70 25			
Collector-emitter saturation voltage	$V_{CE(sat)}$	I_C=-150mA, I_B= -15mA I_C=-500mA, I_B= -50mA			-0.15 -0.5	V
Base-emitter saturation voltage	$V_{BE(sat)}$	I_C=-150mA, I_B= -15mA I_C=-500mA, I_B= -50mA			-0.9 -1.1	V
Transition frequency	f_T	V_{CE}=-10V, I_C= -50mA, f=100MHz	100			MHz
Collector output capacitance	C_{ob}	V_{CB}=-10V,I_E=0,f=1MHz			20	pF

TYPICAL CHARACTERISTICS @ Ta=25℃ unless otherwise specified





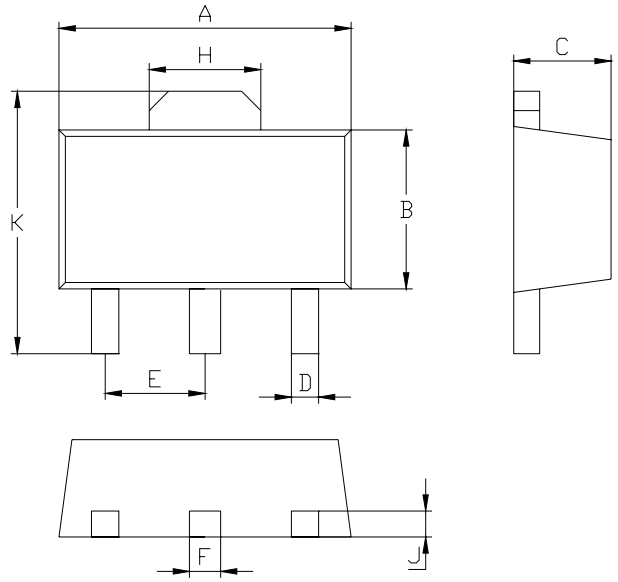




PNP EPITAXIAL PLANAR TRANSISTOR HM4033

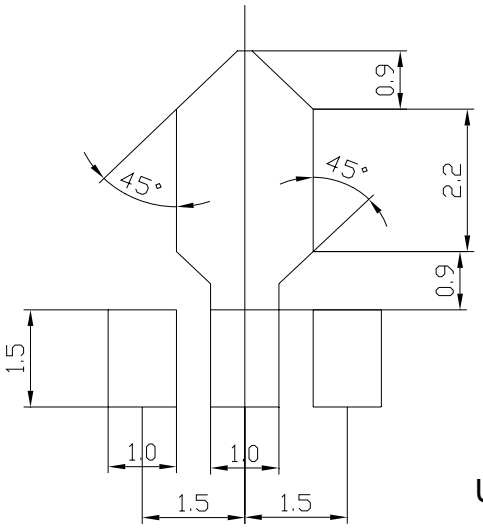
PACKAGE OUTLINE

Plastic surface mounted package SOT-89



SOT-89		
Dim	Min	Max
A	4.5	4.7
B	2.3	2.7
C	1.5Typical	
D	0.35	0.55
E	1.4	1.6
F	0.4	0.6
H	1.55	1.75
J	0.4Typical	
K	4.15	4.25
All Dimensions in mm		

SOLDERING FOOTPRINT



Unit:mm

PACKAGE INFORMATION

Device	Package	Shipping
HM4033	SOT-89	1000/Tape&Reel